

SERIAL NO. 09/923,323**DOCKET NO. 1293.1059CIPD2****IN THE CLAIMS:**

Please **AMEND** claims 1, 3, 4, 9, 11, 14-17, 23, 24, 28, 29 and 31, as follows:

1. (CURRENTLY AMENDED) A playback apparatus to perform a playback operation on a storage medium which includes audio data recorded in an audio area with catalog playback information and catalog information related to the audio data are recorded in another area other than the audio area, wherein the another area comprises a catalog management (CMG) region having management information on the catalog information, and a catalog title set (CTS) in which at least one title catalog including the catalog information related to each item of the audio data is recorded, and wherein the catalog playback information comprises an auto presentation information table in which is stored a location of one item of the catalog information to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data, the playback apparatus comprising:

a decoding unit to decode the audio data and the catalog information; and
a controller to control the decoding unit so as to simultaneously decode the audio data to be played back and the catalog information corresponding to the audio data to be played back according to the catalog playback information.

2. (PREVIOUSLY PRESENTED) The playback apparatus of claim 1, wherein the controller stores the catalog information of the audio data which is to be played back prior to playing back the audio data.

3. (CURRENTLY AMENDED) The playback apparatus of claim 1, wherein the controller distinguishes whether the catalog playback information exists in the storage medium by defining file names of the catalog playback information, defining a region of the storage medium predetermined by a physical or logical address designated as a space for storing the catalog playback information, ~~or~~ defining information indicating whether of a file exists in which the catalog playback information is stored and a location of the file in a volume information region, or combinations thereof, during the playback operation.

4. (CURRENTLY AMENDED) A playback apparatus to perform a playback operation on a storage medium which includes audio data stored in an audio area with catalog playback information and catalog information related to the audio data and stored in another area other

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than the audio area, wherein the another area comprises a catalog management (CMG) region having management information on the catalog information, and a catalog title set (CTS) in which at least one title catalog including the catalog information related to each item of the audio data is recorded, and wherein the catalog playback information comprises an auto presentation information table in which is stored a location of one item of the catalog information to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data, the playback apparatus comprising:

a video decoder which decodes the catalog information and additional information to generate a restored image;

an audio decoder which decodes the audio data to be restored to generate restored audio signals; and

a controller which controls playback of the catalog information according to the catalog playback information.

5. (PREVIOUSLY PRESENTED) The playback apparatus of claim 4, wherein the controller reads the catalog information in a predetermined sequence.

6. (PREVIOUSLY PRESENTED) The playback apparatus of claim 4, wherein the catalog information is defined to be within a predetermined size.

7. (PREVIOUSLY PRESENTED) The playback apparatus of claim 4, further comprising a storing unit which stores the catalog information, and a plurality of title catalogs including the one title catalog and which forms the catalog information, wherein a data size of a sum of data of one of the plurality of title catalogs is at or smaller than a capacity of the storing unit.

8. (ORIGINAL) The playback apparatus of claim 4, wherein the restored image is a still picture for background display, and the additional information is a sub-picture for transferring characters.

9. (CURRENTLY AMENDED) A playback apparatus to perform a playback operation on a storage medium which includes audio data stored in an audio area with catalog playback information and catalog information related to the audio data and stored in another area other than the audio area, wherein the catalog information corresponds to each of the audio data and wherein the catalog playback information comprises an auto presentation information table in

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which is stored a location of one item of the catalog information to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data, the playback apparatus comprising:

a video decoder which decodes the catalog information and additional information to generate a restored image;

an audio decoder which decodes the audio data to be restored to generate restored audio signals; and

a controller which controls playback of the catalog information according to the catalog playback information,

wherein the video decoder decodes the catalog information according to a standard digital versatile disk-video (DVD-Video) specification.

10. (PREVIOUSLY PRESENTED) A playback apparatus to perform a playback operation on a storage medium which includes audio data stored in an audio area with catalog playback information and catalog information related to the audio data and stored in another area other than the audio area, wherein the catalog information corresponds to each of the audio data, the playback apparatus comprising:

a video decoder which decodes the catalog information and additional information to generate a restored image;

an audio decoder which decodes the audio data to be restored to generate restored audio signals; and

a controller which controls playback of the catalog information according to the catalog playback information,

wherein:

the catalog playback information includes a file identifier and an auto presentation information table used to determine a location of the catalog information to be played back corresponding to a predetermined time in accordance with real-time playback information of audio obtained from the audio data during real-time playback, and

if a user does not enter a catalog selection command for a given time during a playback mode of the audio data, the controller reads the auto presentation information table to extract the corresponding catalog information of the audio data being played back.

11. (CURRENTLY AMENDED) A playback apparatus to perform a playback operation of a storage medium which includes encoded audio data in an audio area with catalog playback

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information and encoded catalog information in another area other than the audio data and which is related to the audio data, wherein the another area comprises a catalog management (CMG) region having management information on the catalog information, and a catalog title set (CTS) in which at least one title catalog including the catalog information related to each item of the audio data is recorded, and wherein the catalog playback information comprises an auto presentation information table in which is stored a location of one item of the catalog information to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data, the playback apparatus comprising:

- an optical pickup which reads the encoded audio data and the catalog information; and
- a decoding unit which decodes the encoded audio data, and the encoded catalog information according to the catalog playback information.

12. (PREVIOUSLY PRESENTED) The playback apparatus according to claim 11, further comprising:

- a storage device which stores the read catalog information prior to the optical pickup reading the encoded audio data from the storage medium.

13. (PREVIOUSLY PRESENTED) The playback apparatus according to claim 12, further comprising:

- a controller which controls playback of a title of the encoded catalog information corresponding to a selection of a user and the read encoded catalog playback information.

14. (CURRENTLY AMENDED) A playback apparatus for playing back a storage medium having catalog information stored in a catalog area and which is related to DVD-audio stored in an audio area other than the catalog area and which includes catalog playback information, wherein the catalog information corresponds to each of the audio data and wherein the catalog playback information comprises an auto presentation information table in which is stored the location of one item of the catalog information to be played back corresponding to a predetermined time according to real-time playback information of the DVD-audio obtained by real-time playback of the DVD-audio, the playback apparatus comprising:

- an optical pickup which reads the storage medium and the corresponding catalog information; and

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a processor which reproduces the catalog information according to the catalog playback information.

15. (CURRENTLY AMENDED) The playback apparatus according to claim 14, wherein: the storage medium further stores DVD-video, and the processor reproduces the DVD-video according to ~~the~~ an editing system for the DVD-video.

16. (CURRENTLY AMENDED) A recording apparatus to perform a recording on a storage medium, comprising:

an encoding unit to encode audio data and catalog playback information to be in an audio area and catalog information related to the audio data to be in another area other than the audio area, wherein the catalog information comprises catalog data having information corresponding to distinct items of the audio data, and the catalog playback information includes information on which one of the catalog data is to reproduced when the corresponding items of the audio data are reproduced and an auto presentation information table in which is stored a location of one item of the catalog data to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data; and

an optical pickup to record the encoded audio data and the catalog playback information in the audio area, and the encoded catalog data in the another area,

wherein the another area comprises a catalog management (CMG) region having management information on the catalog information, and a catalog title set (CTS) in which at least one title catalog including the catalog information related to each item of the audio data is recorded.

17. (CURRENTLY AMENDED) The recording apparatus according to claim 16, wherein: the optical pickup records the encoded audio data and the catalog data in accordance with the catalog playback information, and

the recording apparatus further comprises a controller which defines file names of the catalog data for storage on the storage medium, defines a region of the storage medium predetermined by a physical or logical address designated as a space for storing the catalog playback information, ~~or~~ defines information indicating whether a file exists on the storage

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medium in which the catalog playback information is stored and a location of the file in a volume information region of the storage medium, or combinations thereof.

18. (ORIGINAL) The recording apparatus according to claim 16, wherein:
the encoding unit encodes video data representing an image which is a still picture relating to the audio data, and additional information which represents a sub-picture for transferring characters; and
the optical pickup records the encoded video data and the encoded additional information on the storage medium.

19. (PREVIOUSLY PRESENTED) The recording apparatus according to claim 16, wherein the encoding unit encodes the catalog data according a standard digital versatile disk-video (DVD-video) specification.

20. (PREVIOUSLY PRESENTED) The recording apparatus according to claim 16, wherein the optical pickup records the catalog data in an image information region of a volume space of the storage medium, and records the audio data in the audio region of the storage medium.

21. (PREVIOUSLY PRESENTED) The recording apparatus according to claim 17, wherein the optical pickup records the catalog information in an image title set of the image information region, and the optical pickup records the catalog playback information in an audio management region of the audio region and distinct items of the audio data in respective audio title sets of the audio region.

22. (PREVIOUSLY PRESENTED) The recording apparatus according to claim 21, wherein the catalog information is divided in distinct title catalog information corresponding to the respective ones of the distinct items of the audio data, and the optical pickup records the distinct title catalog information into respective program chains of the image title set.

23. (CURRENTLY AMENDED) ~~The recording apparatus according to claim 17~~ A recording apparatus to perform a recording on a storage medium, comprising:
an encoding unit to encode audio data and catalog playback information to be in an audio area and catalog information related to the audio data to be in another area other than the

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audio area, wherein the catalog information comprises catalog data having information corresponding to distinct items of the audio data, and the catalog playback information includes information on which one of the catalog data is to reproduced when the corresponding items of the audio data are reproduced; and

an optical pickup to record the encoded audio data and the catalog playback information in the audio area, and the encoded catalog data in the another area,

wherein;

the another area comprises a catalog management (CMG) region having management information on the catalog information, and a catalog title set (CTS) in which at least one title catalog including the catalog information related to each item of the audio data is recorded,

the optical pickup records the encoded audio data and the catalog data in accordance with the catalog playback information,

the recording apparatus further comprises a controller which defines file names of the catalog data for storage on the storage medium, defines a region of the storage medium predetermined by a physical or logical address designated as a space for storing the catalog playback information, defines information indicating whether a file exists on the storage medium in which the catalog playback information is stored and a location of the file in a volume information region of the storage medium, or combinations thereof, and

the catalog playback information comprises locations of image information in which the catalog data are recorded, a file identifier, and an auto presentation information table in which is stored the locations of one item of the catalog data to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data.

24. (CURRENTLY AMENDED) A recording apparatus to perform a recording on a storage medium, comprising:

an encoding unit to encode audio data and catalog playback information to be in an audio area and catalog information related to the audio data to be in another area other than the audio area, wherein the catalog information comprises catalog data having information corresponding to distinct items of the audio data, and the catalog playback information includes information on which of the catalog data is to reproduced when the corresponding items of the audio data are reproduced; and

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an optical pickup to record the encoded audio data and the catalog playback information in the audio area, and the encoded catalog data in the another area,

wherein:

the optical pickup records the encoded audio data and the encoded catalog data in accordance with the catalog playback information,

the recording apparatus further comprises a controller which defines file names of the catalog data for storage on the storage medium, defines a region of the storage medium predetermined by a physical or logical address designated as a space for storing the catalog playback information, ~~or~~ defines information indicating whether a file exists on the storage medium in which the catalog playback information is stored and a location of the file in a volume information region of the storage medium, or combinations thereof,

the optical pickup records the catalog information in an image title set of the image information region, and the optical pickup records the catalog playback information in an audio management region of the audio region and distinct items of the audio data in respective audio title sets of the audio region,

the catalog information is divided in distinct title catalogs corresponding to the respective ones of the distinct items of the audio data, and the optical pickup records the distinct title catalogs into respective program chains of the image title set,

the catalog playback information comprises:

locations of image information in which the catalog information is recorded,

a file identifier, and

an auto presentation information table in which is stored the locations of one item of the catalog information to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data,

the file identifier comprises:

a plurality of program chain numbers corresponding to the program chains of the title catalogs, and

catalog pointers pointing to locations on the storage medium of the program chains, and

the auto presentation table has playback time information which appropriately and automatically plays back the catalog information, using the real-time playback information obtained from the audio data while each recorded item of the catalog information is played back,

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and information on the playback location of the catalog information, so that the auto presentation information table has information on still pictures and sub-pictures to be played back within the catalog information when a user has not input commands while one item of the catalog information is played back.

25. (PREVIOUSLY PRESENTED) The recording apparatus according to claim 17, wherein:

the optical pickup records the catalog information in an image title set of an image information region of the storage medium, and

the optical pickup records the catalog playback information in a predetermined information region of an audio file and distinct items of the audio data in respective audio title sets of the audio region of the storage medium.

26. (PREVIOUSLY PRESENTED) The recording apparatus according to claim 16, wherein the catalog information is divided in distinct title catalogs corresponding to respective ones of distinct items of the audio data, and the optical pickup records the distinct title catalogs into respective program chains of an image title set on the storage medium.

27. (PREVIOUSLY PRESENTED) The recording apparatus according to claim 16, further comprising:

a decoding unit which decodes the encoded audio data and the encoded catalog data read from the storage medium;

wherein the optical pickup reads the encoded audio data and the catalog data.

28. (CURRENTLY AMENDED) The recording apparatus according to claim 17, further comprising:

a storage device which stores the catalog data of the audio data which is to be played back; and

a controller which controls the decoding unit and the storage device so as to simultaneously decode the audio data to be played back and the catalog data corresponding to the audio data to be played back in accordance with the catalog playback information;

wherein the controller distinguishes whether the catalog playback information exists in the storage medium by defining file names of the catalog playback information, defining a region of the storage medium predetermined by a physical or logical address designated as a space for

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storing the catalog playback information, ~~or~~ defining information indicating whether a file exists in which the catalog playback information is stored and a location of the file in a volume information region, during the playback operation, or combinations thereof.

29. (CURRENTLY AMENDED) A playback apparatus comprising:
a playback unit to perform a playback operation on a storage medium on which audio data is recorded with catalog playback information an audio area, and catalog information related to the audio data is recorded in another area other than the audio area, wherein the another area comprises a catalog management (CMG) region having management information on the catalog information, and a catalog title set (CTS) in which at least one title catalog including the catalog information related to each item of the audio data is recorded and wherein the catalog playback information comprises an auto presentation information table in which is stored a location of one item of the catalog information to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data, the playback unit to reproduce the audio data and the catalog information according to the catalog playback information.

30. (PREVIOUSLY PRESENTED) The playback apparatus of claim 9, wherein:
the catalog information is in a title set and the audio data is in another title set other than the title set.

31. (CURRENTLY AMENDED) The playback apparatus of claim 14, wherein:
the processor reproduces the DVD-audio data corresponding to the catalog information being reproduced, and
the ~~catalog information~~-catalog information being reproduced are in a title set and the DVD-audio data being reproduced is in another title set other than the title set.